

CLAIMS

Having thus described our invention, what we claim as new and desire to secure by Letters Patent is as follows:

- 1 1. A wireless communication system with security, comprising:
2 a display for displaying a site-specific computerized representation
3 of a physical environment in which a communications system is deployed;
4 a plurality of wireless communication components positioned at
5 plurality of different locations within said physical environment, said
6 display identifying at least some of the wireless communication
7 components and their location in said site-specific computerized
8 representation of said physical environment, at least one of said plurality of
9 wireless communication components being an access point and at least one
10 of said plurality of wireless communication components being a network
11 device; and
12 indicator for identifying the presence or a physical location within
13 said physical environment of a possible intruder or intruder devices, said
14 indicator is presented in said site-specific computerized representation of
15 said physical environment on said display when an erroneous
16 authentication request or other undesired transmission is received by said
17 network device or said access point.
- 1 2. The wireless communication system with security of claim 1 wherein
2 said network device is a router.
- 1 3. The wireless communication system with security of claim 1 wherein
2 said network device is mobile.
- 1 4. A security method for a wireless communication system, comprising
2 the steps of:

3 displaying a site-specific computerized representation of a physical
4 environment in which a communications system is deployed;
5 positioning a plurality of wireless communication components at
6 plurality of different locations within said physical environment, said
7 display identifying at least some of the wireless communication
8 components and their locations in said site-specific computerized
9 representation of said physical environment, at least one of said plurality of
10 wireless communication components being an access point and at least one
11 of said plurality of wireless communication components being a network
12 device; and
13 identifying the presence or a physical location within said physical
14 environment of a possible intruder or intruder devices by presenting an
15 indicator in said site-specific computerized representation of said physical
16 environment on said display when an erroneous authentication request or
17 other undesired transmission is received by said network device or said
18 access point.

1 5. The security method of claim 4 wherein said network device is mobile,
2 and further comprising the step of representing movement of said network
3 device that is mobile on said display.

1 6. A wireless communication system with security, comprising:
2 a display for displaying a site-specific computerized representation
3 of a physical environment in which a communications system is deployed;
4 a plurality of wireless communication components positioned at
5 plurality of different locations within said physical environment, said
6 display identifying at least some of the wireless communication
7 components and their location in said site-specific computerized
8 representation of said physical environment, at least one of said plurality of
9 wireless communication components being a network device;
10 storage device for archiving records of other network devices

11 which interact with said network device; and
12 indicator for identifying the presence or a physical location within
13 said physical environment of a possible intruder or intruder devices, said
14 indicator is presented in said site-specific computerized representation of
15 said physical environment on said display when an other network device
16 attempts to interact with said network device which has not previously
17 interacted with said network device as determined from records archived
18 on said storage device.

1 7. A security method for a wireless communication system, comprising
2 the steps of:
3 displaying a site-specific computerized representation of a physical
4 environment in which a communications system is deployed;
5 positioning a plurality of wireless communication components at a
6 plurality of different locations within said physical environment, said
7 display identifying at least some of the wireless communication
8 components and their presence or location in said site-specific
9 computerized representation of said physical environment, at least one of
10 said plurality of wireless communication components being a network
11 device;
12 archiving records of other network devices which interact with said
13 network device in a storage device; and
14 identifying the presence or a physical location within said physical
15 environment of a possible intruder or intruder devices by presenting an
16 indicator in said site-specific computerized representation of said physical
17 environment on said display when an other network device attempts to
18 interact with said network device which has not previously interacted with
19 said network device as determined from records archived on said storage
20 device.

1 8. A site specific inventory system, comprising:

2 a display for displaying a site-specific computerized representation
3 of a physical environment in which a communications system is deployed;
4 a plurality of wireless communication components positioned at a
5 plurality of different locations within said physical environment, said
6 display identifying at least some of the wireless communication
7 components and their locations in said site-specific computerized
8 representation of said physical environment, at least one of said plurality of
9 wireless communication components being a network device;
10 a plurality of RF tags distributed within said physical environment,
11 each of said RF tags being associated with one or more items in said
12 physical environment and the number of said plurality of RF tags being
13 variable, at least one of said wireless communication components
14 communicating via wireless communication with said RF tags; and
15 a data processor associated with said display, said data processor
16 being in communication with said plurality of wireless communication
17 components, said display providing a position and location of one or more
18 of said RF tags in said site-specific computerized representation of said
19 physical environment based on said wireless communication between said
20 at least one of said wireless communication components and said one or
21 more of said RF tags, the number of RF tags displayed in said site-specific
22 computerized representation being variable and corresponding to the
23 number of RF tags in said physical environment, said data processor
24 retrieving or storing or processing information from said one or more of
25 said RF tags based on said wireless communication between said at least
26 one of said wireless communication components and said one or more of
27 said RF tags.

1 9. A site specific inventory system as recited in claim 8 further comprising
2 a connection between said data processor and an internet or intranet, said
3 information retrieved, stored or processed at said data processor being
4 accessible by said internet or intranet through said connection.

5 10. A site specific inventory system as recited in claim 8 wherein each of
6 said RF tags is associated with a single item and contains information
7 describing said single item.

1 11. A site specific inventory method, comprising the steps of:
2 displaying a site-specific computerized representation of a physical
3 environment in which a communications system is deployed;
4 positioning a plurality of wireless communication components at
5 plurality of different locations within said physical environment, said
6 display identifying at least some of the wireless communication
7 components and their locations in said site-specific computerized
8 representation of said physical environment, at least one of said plurality of
9 wireless communication components being a network device;
10 distributing a plurality of RF tags within said physical environment,
11 each of said RF tags being associated with one or more items in said
12 physical environment and the number of said plurality of RF tags being
13 variable, at least one of said wireless communication components
14 communicating via wireless communication with said RF tags; and
15 using a data processor associated with said display, said data
16 processor being in communication with said plurality of wireless
17 communication components, said display providing a position and location
18 of one or more of said RF tags in said site-specific computerized
19 representation of said physical environment based on said wireless
20 communication between said at least one of said wireless communication
21 components and said one or more of said RF tags, the number of RF tags
22 displayed in said site-specific computerized representation being variable
23 and corresponding to the number of RF tags in said physical environment,
24 said data processor retrieving or storing or processing information from
25 said one or more of said RF tags based on said wireless communication
26 between said at least one of said wireless communication components and
27 said one or more of said RF tags.

1 12. A site specific inventory method recited in claim 11 further
2 comprising the step of connecting said data processor to an internet or
3 intranet, said information retrieved, stored or processed at said data
4 processor being accessible by said internet or intranet through said
5 connection.

1 13. A site specific inventory method as recited in claim 11 wherein each
2 of said RF tags is associated with a single item and contains information
3 describing said single item.

1 14. A wireless communication system, comprising:
2 a display for displaying a site-specific computerized representation
3 of a physical environment in which a communications system is deployed;
4 a plurality of wireless communication components positioned at
5 plurality of different locations within said physical environment, said
6 display identifying as graphical icons at least some of the wireless
7 communication components and their locations or presence in said site-
8 specific computerized representation of said physical environment; and
9 a data processor associated with said display which retrieves or
10 stores or processes information that describes each of said plurality of
11 wireless communication components and which identifies a pre-defined
12 communication method for at least some of said plurality of wireless
13 communication components,
14 said display selectively presenting graphical or textual information
15 or a combination of graphical and textual information from said data
16 processor pertaining to one or more of said plurality of wireless
17 communication components when one or more graphical icons associated
18 with said one or more of said plurality of wireless communication
19 components are selectively identified on said display.

1 15. The wireless communication system of claim 14 wherein said data
2 processor recognizes when wireless communication components are added
3 or subtracted from said physical environment, and said display reflects
4 additions or subtractions of wireless communication components by
5 additions or subtractions of said graphical icons.

1 16. The wireless communication system of claim 14 wherein at least one
2 of said plurality of wireless communication components is mobile, and is
3 provisioned with a particular bandwidth using said data processor.

1 17. A wireless communication method, comprising the steps of:
2 displaying a site-specific computerized representation of a physical
3 environment in which a communications system is deployed;
4 positioning a plurality of wireless communication components at
5 plurality of different locations within said physical environment, said
6 display identifying as graphical icons at least some of the wireless
7 communication components and their locations or presence in said site-
8 specific computerized representation of said physical environment;
9 using a data processor associated with said display to retrieve or
10 store or process information that describes each of said plurality of
11 wireless communication components and to identify a pre-defined
12 communication method for at least some of said plurality of wireless
13 communication components; and
14 selectively presenting graphical or textual information or a
15 combination of graphical and textual information from said data processor
16 pertaining to one or more of said plurality of wireless communication
17 components when one or more graphical icons associated with said one or
18 more of said plurality of wireless communication components are
19 selectively identified on said display.

1 18. The wireless communication method of claim 17, further comprising

2 the step of communicating with one or more of said plurality of wireless
3 communication components.

1 19. The wireless communication method of claim 18 wherein said step of
2 communication is performed by voice over internet protocol.

1 20. The wireless communication method of claim 17, wherein at least one
2 of said plurality of wireless communication components is mobile, and
3 further comprising the step of graphically representing movement of said
4 at least one wireless communication component that is mobile on said
5 display.

1 21. The wireless communication method of claim 17, further comprising
2 the step of provisioning bandwidth for one or more of said wireless
3 communications components within said physical environment using said
4 data processor.